MMM MMM MMM MMM MMM MMMMM MMM MMM MMM	000000000 000000000 0000000000 000 000 000 000		NNN NNN NNN NNN NNN NNN NNN NNN NNN NN	
---	---	--	--	--

LI

LO LO LO MA MO MO MO MO MO

MC

22222222 22222222 22222222 22222222 2222	HH H	NN		88888888888888888888888888888888888888
		\$		

.....

00000001

0000

```
555556666666666777777777778888888888899999
                          ASSORTED MACROS USED IN FCP CODE
                                  .MACRO SET_IPL LEVEL .ENDM SET_IPL
                                                                    ; SET PROCESSOR IPL (DUMMY NOW)
                        ; MACRO USED TO SIGNAL FATAL ERRORS (INTERNAL CONSISTENCY CHECKS).
                                  .MACRO BUG_CHECK
                                                              CODE, TYPE, MESSAGE
                                                              ; SIMPLY CALL A HALT FOR NOW
                                  HALT
                                           BUG_CHECK
                                  .ENDM
                          MACRO TO SIGNAL AN ERROR STATUS AND CONTINUE.
                                  . MACRO
                                           ERROR CODE
                                           "CODE, USER_STATUS
                                  MOVL
                                           ERROR
                                  . ENDM
                          MACRO TO SIGNAL AN ERROR STATUS AND EXIT.
                                  .MACRO ERR EXIT
MOVZWL CODE, -(SP)
                                  HALT
                                                              ; UNTIL WE FIGURE THIS OUT
                                           ERR_EXIT
                                  .ENDM
                          TYPE CODES USED TO IDENTIFY BLOCKS BEING READ BY READ BLOCK.
                          NOTE THAT READ_BLOCK CONTAINS A TABLE INDEXED BY THESE CODES.
           0000
0000
0000
0000
                                 HEADER_TYPE
BITMAP_TYPE
DIRECTORY_TYPE
INDEX_TYPE
00000000
                                                    = 0
                                                                         FILE HEADER
00000001
                                                    = 1
                                                                         STORAGE BITMAP
                                                   = 2
                                                                         DIRECTORY BLOCK
00000003
                                                                         OTHER INDEX FILE BLOCKS
           0000
                          TYPE CODES USED TO IDENTIFY BLOCKS OF MEMORY REQUESTED FROM THE
           0000
                          ALLOCATOR. NOTE THAT THESE CODES INDEX INTO A TABLE IN ALLOCATE.
           0000
00000000
           0000
                                 FCB_TYPE
WCB_TYPE
                                                    = 0
                                                                       : FILE CONTROL BLOCK : WINDOW BLOCK
```

CL

TITLE CHNUCB - GET ASSUGNED UCB ADDRESS OF CHANNEL

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FACILITY: F11ACP STRUCTURE LEVEL 1

ABSTRACT:

THIS ROUTINE RETURNS THE ADDRESS OF THE UCB ASSIGNED TO THE GIVEN CHANNEL.

ENVIRONMENT:

STARLET OPERATING SYSTEM, INCLUDING PRIVILEGED SYSTEM SERVICES AND INTERNAL EXEC ROUTINES. THIS ROUTINE MUST BE CALLED IN KERNEL MODE.

AUTHOR: ANDREW C. GOLDSTEIN, CREATION DATE: 28-APR-1977 16:26

MODIFIED BY:

V02-000 ACG0167 Andrew C. Goldstein, 18-Apr-1980 13:40 Previous revision history moved to MOUNT.REV

EQUATED SYMBOLS:

CHANNEL = 4

499012345

: ADDRESS OF CHANNEL NUMBER ARG

00000004

101123145167

- GET ASSUGNED UCB ADDRESS OF CHANNEL CHNUCB V04-000 16-SEP-1984 00:59:24 VAX/VMS Macro V04-00 5-SEP-1984 02:03:26 [MOUNT.SRC]CHNUCB.MAR;1 (1) Page 0000 58 **SCCBDEF** ; DEFINE CHANNEL CONTROL BLOCK

.PSECT \$CODE\$, NOWRT, LONG

^M<R2,R3,R4,R5> CHANNEL(AP),R0

a#IOC\$VERIFYCHAN

CCB\$L_UCB(R1),R0

: SAVE REGISTERS

BRANCH IF GOOD

GET CHANNEL NUMBER

; RETURN UCB ADDRESS AS VALUE

GET_CHANNELUCB::

105:

. WORD

ERR EXIT RO MOVE CCB\$L

MOVL

JSB BLBS

RET

.END

003C

D0 16 E8

```
CHNUCB
                                                          - GET ASSUGNED UCB ADDRESS OF CHANNEL
                                                                                                                                                                          VAX/VMS Macro V04-00
[MOUNT.SRC]CHNUCB.MAR;1
                                                                                                                                                                                                                            Page
                                                                                                                                                                                                                                       (2)
 Symbol table
BITMAP TYPE
CCBSL UCB
CHANNEL
                           = 00000001
= 00000000
= 00000004
= 00000000 RG
                                                          02
                                                          02
                           = 00000001
WCB_TYPE
                                                                                       +----
                                                                                          Psect synopsis
 PSECT name
                                                                                             PSECT No.
                                                                                                                 Attributes
                                                          Allocation
                                                          00000000
00000000
00000017
 SABS
                                                                                                                                                                                                      NOWRT NOVEC BYTE NOWRT NOVEC LONG
                                                                                                        0.)
                                                                                                                 NOPIC
                                                                                                                                                                LCL NOSHR
                                                                                                                                                                                 NOEXE NORD
                                                                                                                 NOPIC
                                                                                                                               USR
                                                                                                                                          CON
                                                                                                                                                     ABS
                                                                                                                                                                LCL NOSHR
$CODE$
                                                                                                                                                                                                RD
                                                                                    Performance indicators
Phase
                                             Page faults
                                                                        CPU Time
                                                                                                   Elapsed Time
 ----
                                                                                                  00:00:00.80

00:00:03.66

00:00:05.01

00:00:00.04

00:00:02.39

00:00:00.16

00:00:00.07

00:00:00.00
                                                                       00:00:00.08
00:00:00.70
00:00:01.18
00:00:00.01
00:00:00.52
00:00:00.02
00:00:00.02
00:00:00.03
 Initialization
 Command processing
 Pass 1
Symbol table sort
Pass 2
Symbol table output
Psect synopsis output
Cross-reference output
Assembler run totals
The working set limit was 900 pages.
3241 bytes (7 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 30 non-local and 1 local symbols.
197 source lines were read in Pass 1, producing 13 object records in Pass 2.
12 pages of virtual memory were used to define 11 macros.
                                                                                  Macro library statistics !
Macro library name
                                                                                 Macros defined
$255$DUA28:[SYS.OBJ]LIB.MLB;1
$255$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)
```

80 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

CL

CHNUCB - GET ASSUGNED UCB ADDRESS OF CHANNEL 16-SEP-1984 00:59:24 VAX/VMS Macro V04-00 Page 6 VAX-11 Macro Run Statistics 5-SEP-1984 02:03:26 [MOUNT.SRCJCHNUCB.MAR;1 (2)

0244 AH-BT13A-SE

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